



## VAUGHAN DATA CENTRE

The Vaughan Data Centre is designed to Uptime Institute Tier I standards to provide data centre essentials in a convenient location within the Greater Toronto Area. Power is supplied via utility power feed, UPS system, and backup generators to provide power fault tolerance. Cooling and connectivity infrastructure elements are built with N+1 and 2N redundancy respectively to provide additional fault tolerance to the system.

### The Facility:

#### Power

##### Distribution

- 1 MW power capacity
- Main power delivered from municipal hydro substations
  - A and B side power available for every cabinet
- 208V Single or 3-Phase, 120V Single Phase available

##### Generators

- Four generators (1,300 kW total) supplying backup power to the complex
- On-site fuel capacity provides >12 hours run time at full load (based on current capacity)

##### UPS System

- 660kW UPS total capacity

#### Whitespace & Building

- 15,340 sq. ft. facility
- 7,500 sq. ft. of total whitespace for IT
- 15" raised flooring
- Full height loading docks
- Secure room for equipment delivery and storage
- Customer Lounge area

#### Connectivity

- Carrier-neutral facility
- Fully redundant diverse fibre core fed from multiple providers including:
  - TeraGo
  - Bell
  - Zayo
  - Shaw
  - Telus

## Cooling System

### Chillers

- CRAC units supporting >900KW IT Load at capacity
- N+1 Cooling redundancy

### Cooling System Design

- Hot aisle containment configuration
- Commercial grade modular cooling system

## Cabinet Space

- Full cabinet includes 42 Rack Units (42U)
- Half Cabinets available
- Customers can provide their own PDUs
- Depth-adjustable railings

## Security and Monitoring

- 24/7 video monitoring and surveillance by Network Operations Centre
- Multi-factor access authentication (access card and biometric)

## Compliance and Certifications

